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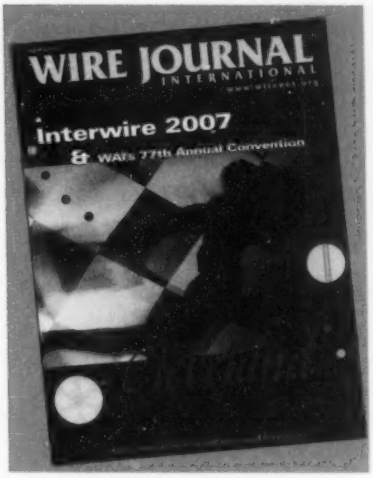

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In 2001, needing new challenges, I transferred to an American company in the semi-conductor industry as an engineer. In both companies I have been traveling extensively through the U.S.

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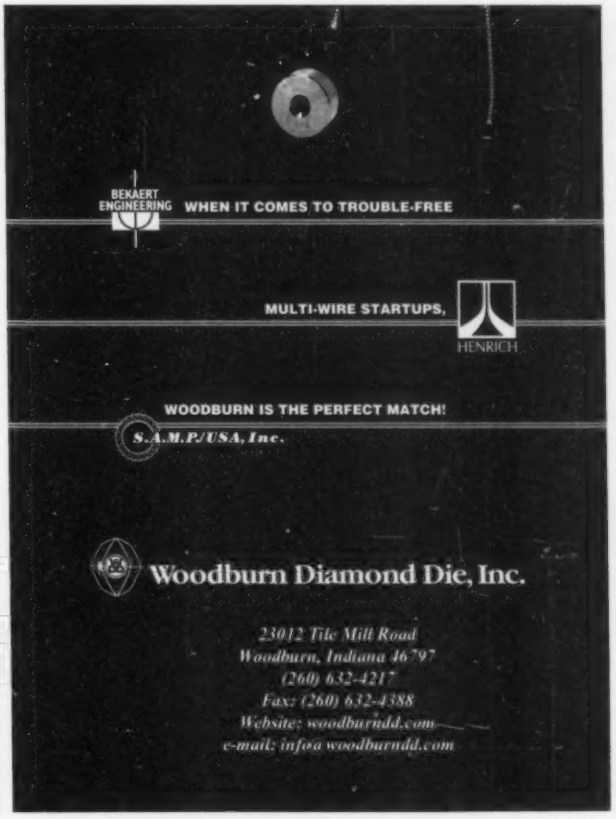

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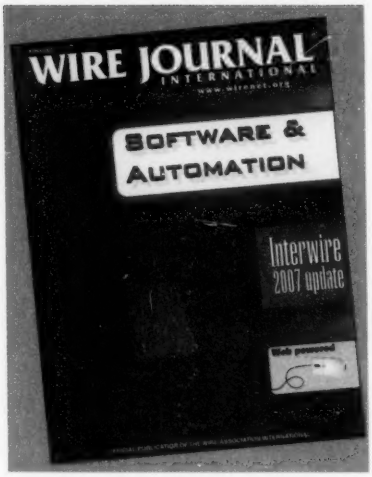

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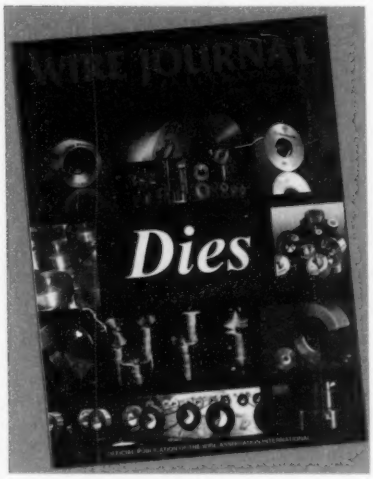

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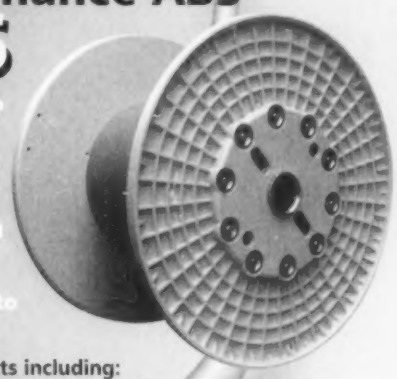

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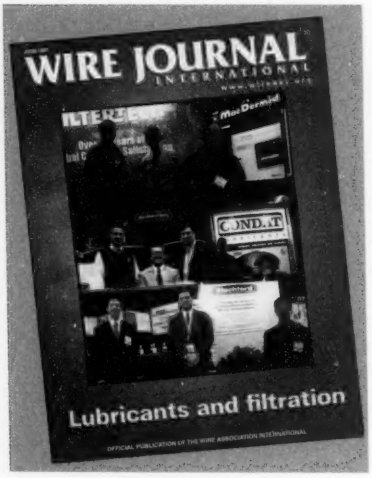

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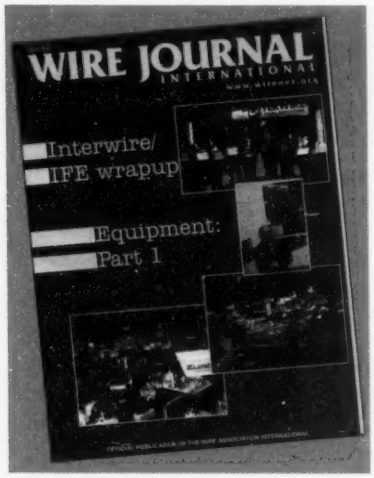

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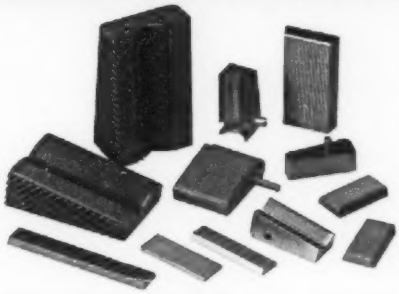

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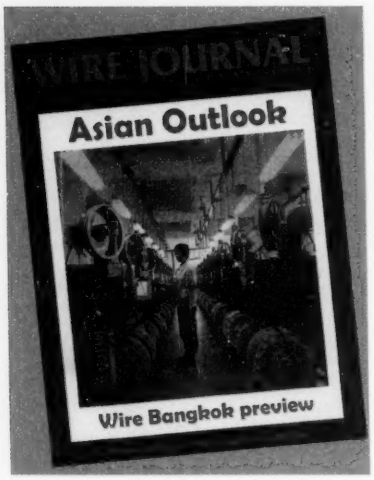

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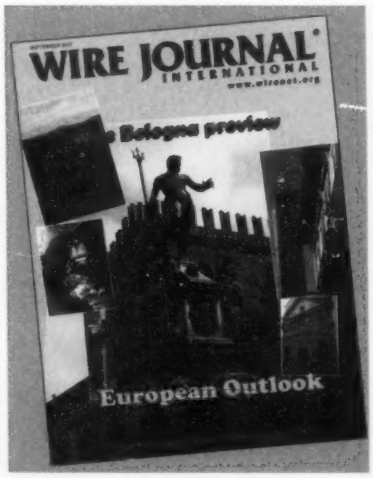

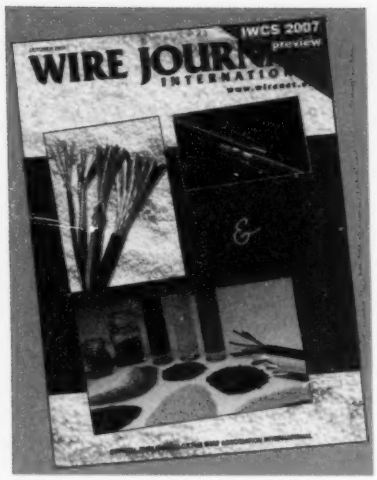

Technical Articles:

"Development of B-Nb micro-alloyed medium carbon steels with high ductility for severe wiredrawing," by Mario Confente, André Lefort and Michael Klemm, *Jan., p. 96.*

"Estimation of quality of copper coatings on low carbon steel wires," by Wieslaw Waszkielewicz, Bogdan Golis, Ryszard Budzik, Jan W. Pilarczyk and Zbigniew Muskalski, *Jan., p. 101.*

"Computer-aided tool design and simulation of the wire rolling process," by Stefan Freitag, Albert Sedlmaier and Stefan Ruess, *Jan., p. 106.*

"Improved wire rod properties resulting from controlled cooling in modern water box and Stelmor® conveyor cooling system," by W.P. Krejdovsky, D.M. Jones and B.V. Kiefer, *Feb., p. 56.*

"The evolution of wiredrawing coolant filtration and increased wire production and quality," by Tom Horn, *Feb., p. 62.*

"Gaining market share in the energy sector," by Premjeet Saggu and Knut Szemjonneck, *Feb., p. 66.*

"Nanotechnology: how small is the nanoworld in the cable industry," by Hasan Cizmic, *March, p. 196.*

"Analyses and prevention methods for wire breaks in ultrafine gold wiredrawing," by Tsutomu Yamashita and Kazunari Yoshida, *March, p. 200.*

"Electromagnetic (EM) non-destructive evaluation of steel wire ropes: a preview," by Debasish Basak, *March, p. 204.*

"Effect of high-quality wire rod and micro-alloying on properties of steel wire in PCCP," by Surya Kumar Singh, *April, p. 126.*

"Enhanced electromagnetic monitoring system for quality improvement of copper rod," by Masoud Garshasb, *April, p. 130.*

"Results of tension and compression wire tests after patenting and drawing," by Fryderyk Knap and £ukasz Cieslak, *April, p. 135.*

"Tension straightening of a drawn superfine wire," by Kazunari Yoshida, Kyotaro Sato, Tsutomu Yamashita, Huroyuki Sato, Eiji Matsunaga and Daiki Kato, *May, p. 46.*

"Pickling acid management–more than just recovery," by William Gower, *May, p. 51.*

"FEM aided study on hydrostatic stress in drawing of high carbon steel wires," by

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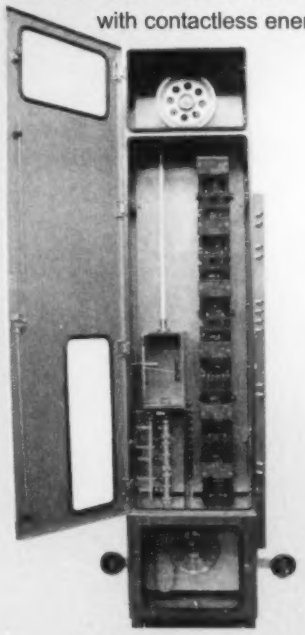

RI 120 / 170 250 / 420

Technical Data

	RI120	RI170	RI250	RI420
short circuit pulley-Ø [mm]:	120	170	250	420
round wire d_{min} [mm]:	0,100	0,150	0,400	2,000
round wire d_{max} [mm]:	0,300	1,500	2,500	4,000
flat wire h_{min} [mm]:	0,035	0,075	0,100	0,500
flat wire h_{max} [mm]:	0,200	0,900	2,000	3,600
flat wire b_{min} [mm]:	0,600	0,800	1,500	2,000
flat wire b_{max} [mm]:	10,000	20,000	20,000	32,000
cross-section $_{min}$ [mm²]:	0,008	0,018	0,126	1,500
cross-section $_{max}$ [mm²]:	2,000	4,000	8,000	16,000
v_{max} [m/s] round wire[1]:	30	30	15	10
v_{max} [m/s] flat wire[1]:	15	15	15	10

material: copper alloys (bronce, brass, nickel-silver)
low alloyed copper (e.g. CuMg, CuBe, CuCr)
resistance alloys (e.g. CuNi44Mn1, NiCr10, Ni)

[1] depending on material, cross-section and tolerance d= diameter, h= height, b= width

We reserve the right to modify according to technical improvement without further notice

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Sten He, Paul Van Houtte, Jan W. Pilarczyk and Jaroslaw Markowski, *May, p. 57.*

"Wiredrawing breaks – A review of mechanical perspectives," by Roger N. Wright, *June, p. 48.*

"Residual stresses and hydrogen embrittlement in cold-drawn eutectoid steel wires," by Jose Miguel Atienza, Manuel Elices, Jesus Ruiz-Hervias and Luis Caballero, *June, p. 52.*

"Method and material for manufacture of rectangular wire coil springs without dynamic strain aging," by Anand Bhagwat and Steven S. Wray, *June, p. 58.*

"Optimization of pass schedule for copper-clad steel wire," by Cho Hoon, Jo Hyung-Ho, Lee Kyong-Whoan and Kim Byung-Min, *July, p. 88.*

"Study on parameters influencing the corrosion of metallic coatings on wire exposed to marine environments," by Robert Fabien, Malcolm Robertson and Anh V. Nguyen, *July, p. 94.*

"Mordica Lecture," by Harry Petrohilos, *July, p. 99.*

"Comparison of the effectiveness of mechanical descaling against acid pickling for cleaning of low-carbon steel wire rod: a case study," by Chitra Baid, Kamal Baid, Naveen Baid and Ashok Bagra, *Aug., p. 64.*

"Ductility of pearlitic wires under different loading," by Michael Zelin and Robert M. Shemenski, *Aug., p. 69.*

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"Mathematical model simulating thin-steel wiredrawing in the presence of back tension," by Vladimir Bitkov, *Sept., p. 78.*

"Metallurgical and wiredrawing performance comparison of ETP and oxygen-free copper," by Masoud Garshasb, *Sept., p. 84.*

"Wired together," by Don Sayenga, *Oct., p. 72.*

"Development of a virtual wiredrawing tool for process analysis and optimization," by Surya Kumar Singh, B.p. Gautham, Sharad Goyal, Amol Joshi and Dinesh Gudadhe, *Oct., p. 81.*

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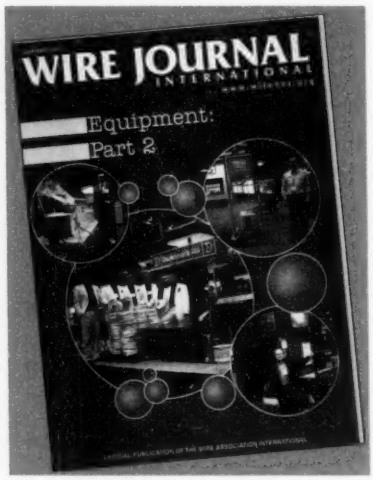
"Thermomechanical processing of spring steel rod with reducing sizing mills for improved properties and microstructure," by R.A. Varo, W.P. Krejdovsky and B.V. Kiefer, *Nov., p. 71*

"Basic study of straightness in roller leveler straightening for bar in coil," by Megumi Nagahira, Motoo Asakawa, Sigeyuki Aizawa, Masahi Motoda, Hironori Yoshida and Masahiko Amari, *Nov., p. 76.*



"Influence of heat treatment of TRIP steel wire rod on structure and mechanical properties," by Jan W. Pilarczyk, Zbigniew Muskalski, Bogdan Golis, Sylwia Wiewiórowska, Maciej Suliga and Nicholas Nickoletopoulos, *Nov.,p. 88.*

"Effect of high-speed drawing on properties of high-carbon steel wires," by Ivo Nemec, Bogdan Golis, Jan W. Pilarczyk, Ryszard Budzik and Wieslaw Waszkielewicz, *Dec. p. 63.*

"Effects of initial strength and initial diameter of as-patented state on delamination sensitivity of UHT steel cords," by Takanari Hamada and Naoyuki Sano, *Dec. p. 69.*

"Effect of back-tension in drawing on diameter of bar and wire," by Hiroaki Kubota, Motoo Asakawa and Satoshi Kajino," by Selcuk Harput, *Dec. p. 75.*

WAI Chapter Corner

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1st woman president to lead New England Chapter, *March, p. 38.*

Ohio Valley Chapter members support Interwire 2007, *March, p. 40.*

Poland Conference draws 100 plus attendees to Zakopane, *April, p. 40.*

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Italy Chapter to hold its first meeting in June, *May, p. 33.*

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Two winners names for New England Chapter scholarships, *June, p. 32.*

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Wire New England: event offers 5 sessions, tabletops, *Sept., p. 42.*

Wire Foundation makes N.E. scholarship less taxing, *Sept., p. 44.*

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7th Annual Western Chapter 'Wild West Shootout', *Sept., p. 48.*

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Record (not rain!) fell at New England golf tourney, *Nov., p. 44.*

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Western Chapter will remember *this* meeting topic, *Dec., p. 42.*

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WAI News

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2007 Association organizational chart, *Jan., p. 44.*

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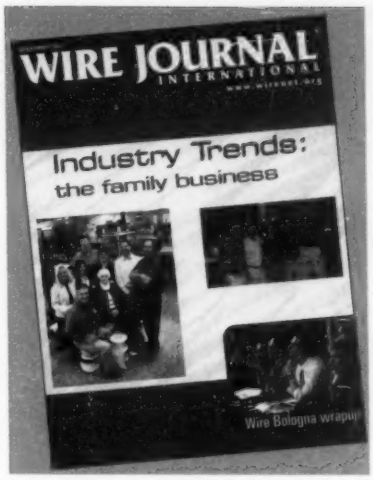
Digital March *WJI* sent to members, international readers, *April, p. 34.*

Complete list of 2006 technical paper award winners, *April, p. 34.*

Good host, instructor, make for a solid workshop, *May, p. 30.*

U.K. wire scholar chosen, will attend Interwire, *May, p. 30.*



WAI subsidiary launches quarterly publication for India, *May, p. 31.*

Call for Papers issued by WAI for Wire Expo 2008, *June, p. 28.*

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Reconvene scheduled for October 20-22 in Nashville, *June, p. 31.*

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WAI Membership Program adds 50+ members, *July, 38.*

And the survey of Interwire exhibitors says, *Aug., p. 36.*

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Mexico: event a "triple' header, *Sept., p. 40.*

Michael joins Board of Directors, *Sept., p. 40.*

Watend: person for Wire Link scholar program, *Sept., p. 40.*

Call for Papers for India conference on automotive wire, *Oct., p. 39.*

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Wanted: Wire Link scholar program applicants, *Oct., p. 43.*

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Properzi and Loudon co-winners of 2008 Donnellan Memorial Award, *Dec., p. 38.*

2008 Mordica Memorial Award goes to Dr. Yalamanchili, *Dec., p. 39.* ■

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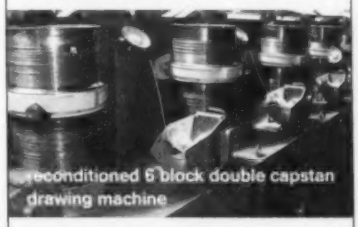

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